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TITLE : SALT TABLET EXCELLENT IN WATER SOLUBILITY

ABSTRACT : PROBLEM TO BE SOLVED: To produce salt tablets excellent in water solubility and easily dissolving without giving mechanical power by forming the formulated starting material being a mixture having a specified composition and consisting of the salt and a solid foaming agent and specifying the water content and the average grain size.

SOLUTION: The formulated starting material being the mixture of 1 pt.wt. salt and 0.05-1 pt.wt. solid foaming agent and having ≤ 0.2 wt.% water content and 30-300 μm average grain size is formed at the pressure of 300-1000 kg/cm^2 . For example, rock salt, solar salt, the salt obtained by concentrating and crystallizing sweater by means of an ion exchange membrane method and the salt obtained by recovering from a waste gas containing hydrogen chloride are exemplified at the salt. A water soluble solid org. acid (e.g.: tartaric acid, citric acid, fumaric acid, lactic acid, malic acid and adipic acid) and a carbonate (e.g.: sodium bicarbonate, sodium carbonate and potassium carbonate) are used as the foaming agent. The solid org. acid and the carbonate are blended so that a pH of 1 wt.% soln. of the mixture at 20°C may be 4.5-8.0.

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